The Value Proposition for SMLC Participation

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SMLC Objectives - 1

• Lower cost barriers for data analysis, modeling, and simulation

• Build pre-competitive infrastructure for network and information technology

• Integrate requirements of small, medium and large enterprises

• Create and provide broad access to next-generation sensors

• Ensure multi-level cyber security at a scalable level
SMLC Objectives - 2

• Develop a standards-based reference architecture

• Establish an industry-shared SM Platform across continuous / batch / discrete industry segments

• Implement R&D projects for execution of SM Systems

• Facilitate efforts to secure funding through public-private and private-private partnerships

• Operate industry test beds for Smart Manufacturing system concepts and disseminate information
SM Platform
Open Architecture for Plug & Play

Apps Store

- Open Source
- Community
- IP Security
- Marketplace

Authenticated Buyer
Authenticated Seller
Member Benefits - 1

• Gain access to the “best and brightest” SM resources from many disciplines (esp. ME and ChE)

• Find opportunities to fuel innovation
• and access talent, knowledge and expertise

• Establish R&D implementation teams for specific projects

• Participate in the deployment of projects to address industry hurdles.

• Form partnerships to pursue new commercial opportunities
Member Benefits - 2

- Manage risks and uncertainties of deployment through R&D and test bed opportunities
- Avoid high cost development of one-off, local solutions
- Develop engineering standards, define initial test beds, and target applications of prototypes
- Gain insight into early market opportunities and add commercial value
- Provide input and guidance for the design of the platform structure while it is under development
The SMLC has three membership levels to address various needs and interests for small, medium and large enterprises as well as affiliates.

• Board
• Project
• Associate
SMLC Board Member

• Make decisions on setting priorities
• Provide guidance for advocacy initiatives and commercialization activities
• Receive non-exclusive license to IP developed by member funded projects
• Be involved in SMLC projects
• Pilot test emerging technologies

• Access SM concepts, knowledge and resources
• Attend all events at reduced rates
• Collaborate with SM leaders
Starting the Coalition: The Chicken or Egg Problem

- Do you join based on the stated goals of SMLC? (faith-based approach)

- If you join, you can determine what priorities/actions SMLC will take

- Identify critical “gaps” for SM

- Form work teams to develop specific collaboration/implementation actions
Experience with Other Business Leagues, Non-Profit Corporations/ Consortia

- Council for Chemical Research
- FIATECH
- Construction Industry Institute (CII)
- SEMATECH
- Foundation Fieldbus
- Texas-Wisconsin-California Control Consortium (TWCCCC)
- CACHE Corporation
- Pecan Street Inc. Consortium (smart grid demonstration – DoE funding)
Board Member
Funding Potential of SMLC

Based on Attendance at Today’s Forum:

- 13 companies
- 4 government labs
- 9 universities
- 7 organizations

➢ $450,000 budget (exclusive of possible grants from proposals already submitted ~ $8 million)
Funding/budget decisions will be made by the Board to:

• Carry out project work (consultants, universities)
• Maintain office operation (subcontractors)
• Write proposals to government (e.g., consultants)
• Communicate information / hold workgroup meetings
• Develop private-private partnerships
Join General Mills, General Dynamics, Rockwell Automation, UCLA, UT-Austin, NETL, and other members of SMLC to:

• Leverage multi-organizational resources
• Gain early insight to tipping-point knowledge and technology
• Participate in developing next-generation technology
• Access thought leaders in smart manufacturing in industry, academic, and government sectors
Websites:
https://smartmanufacturingcoalition.org
http://smartmanufacturing.com